

Figure 1

The length of the piano gland and the predicted value with frequency							
	①0.3mm		②0.5mm		③1.0mm		④0.3mm scale data
	f Hz	length mm	f Hz	length mm	f Hz	length mm	f Hz length mm
1	185	33.1	185	46.8	185	53.9	246.9 28.6 H
2	190	32.7	190	46.1	190	53.2	261.6 27.8 C
3	195	32.3	195	45.6	195	52.5	277.2 26.9 Des
4	200	31.8	200	45.0	200	51.8	293.7 26.2 D
5	205	31.4	205	44.4	205	51.2	311.1 25.4 Es
6	210	31.1	210	43.9	210	50.5	329.6 24.7 E
7	215	30.7	215	43.4	215	49.9	349.2 23.9 F
8	220	30.3	220	42.9	220	49.4	370.0 23.2 Fs
9	225	30.0	225	42.4	225	48.8	392.0 22.5 G
10	230	29.7	230	42.0	230	48.2	415.3 21.9 As
11	235	29.3	235	41.5	235	47.7	440.0 21.2 A
12	240	29.0	240	41.1	240	47.2	466.2 20.6 Bb
13	245	28.7	245	40.7	245	46.7	493.9 20.0 H
14	250	28.4	250	40.3	250	46.2	523.3 19.4 C
15	255	28.1	255	39.9	255	45.8	554.4 18.8 Des
16	260	27.8	260	39.5	260	45.3	587.3 18.3 D
17	265	27.6	265	39.2	265	44.9	622.3 17.8 Es
18	270	27.3	270	38.8	270	44.4	659.3 17.2 E
19	275	27.1	275	38.4	275	44.0	698.5 16.7 F
20	280	26.8	280	38.1	280	43.6	740.0 16.2 Fs
21	285	26.6	285	37.8	285	43.2	784.0 15.7 G
22	290	26.3	290	37.5	290	42.8	830.6 15.3 As
23	295	26.1	295	37.1	295	42.5	880.0 14.8 A

table computed experimental value in the regression

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Figure 2

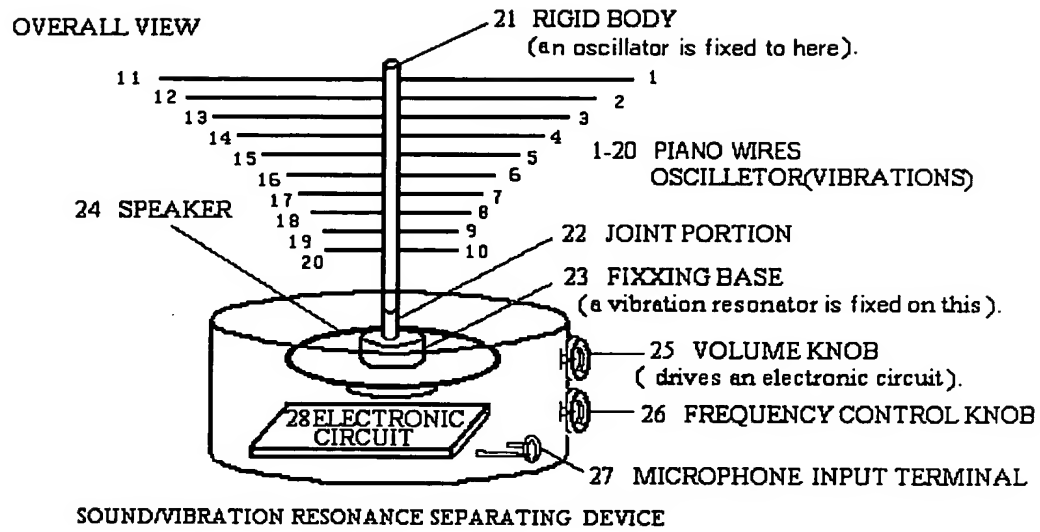
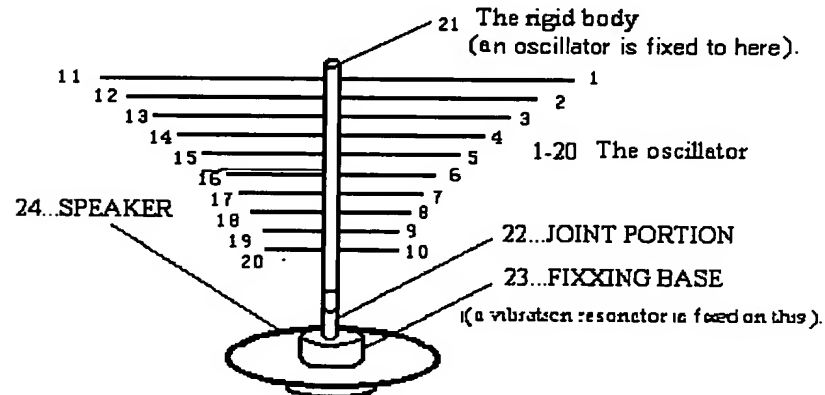


Figure 3



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Figure 4

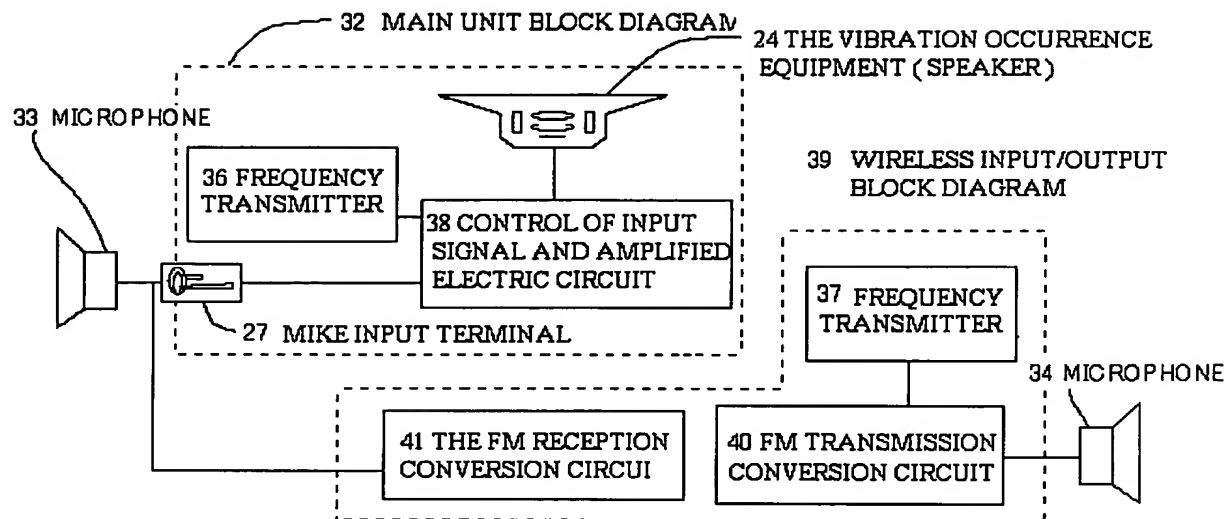
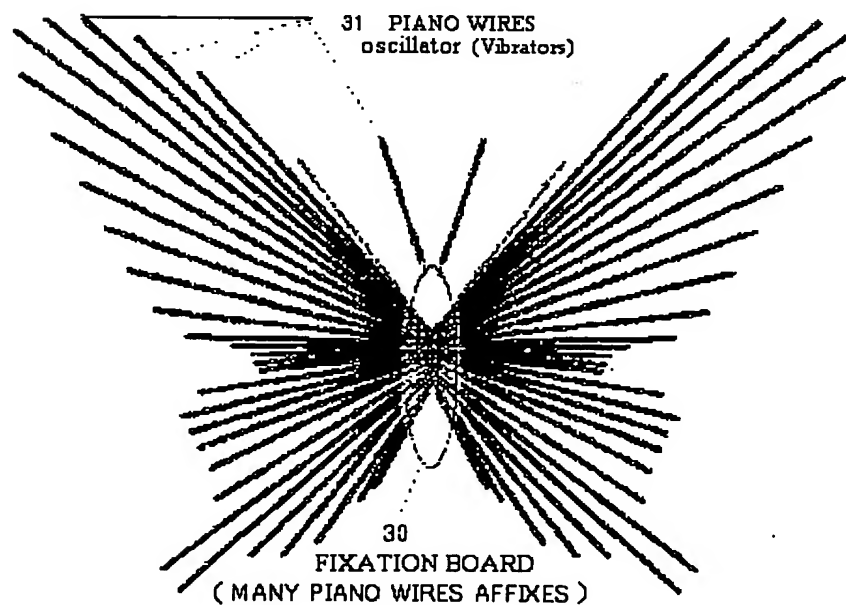


Figure 5



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Figure 6

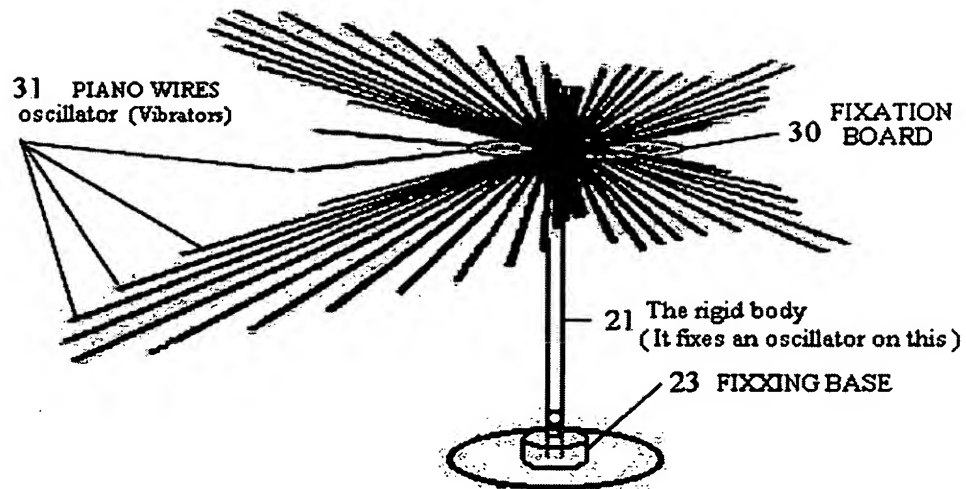


Figure 7

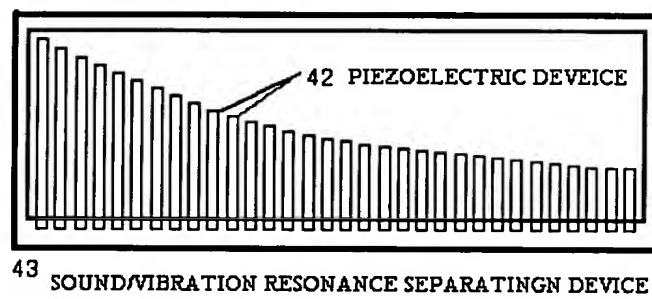
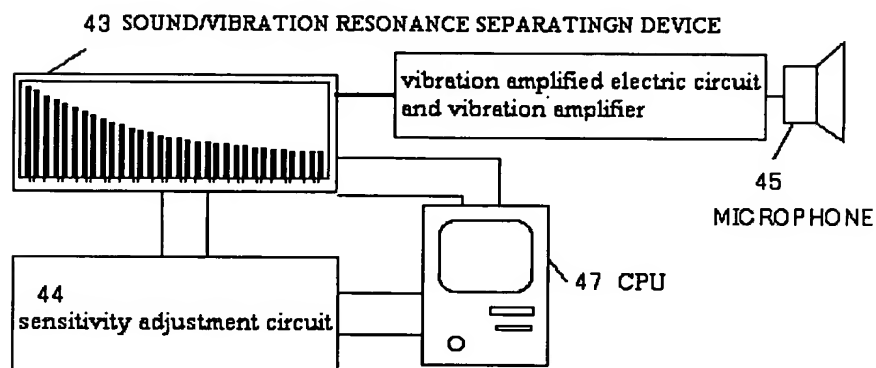


Figure 8



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